

# *Gulf Cooperation Council*

## EDICT OF GOVERNMENT

In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them.

GSO 1503 (2009) (Arabic): MOTOR VEHICLE HEAD LAMPS -  
SAFETY REQUIREMENTS (Draft Standard)



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# **GCC STANDARDIZATION ORGANIZATION (GSO)**

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**GSO2/1/FDS/ :2009**  
Update GSO 1503/2002

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## **MOTOR VEHICLE HEAD LAMPS - SAFETY REQUIREMENTS**

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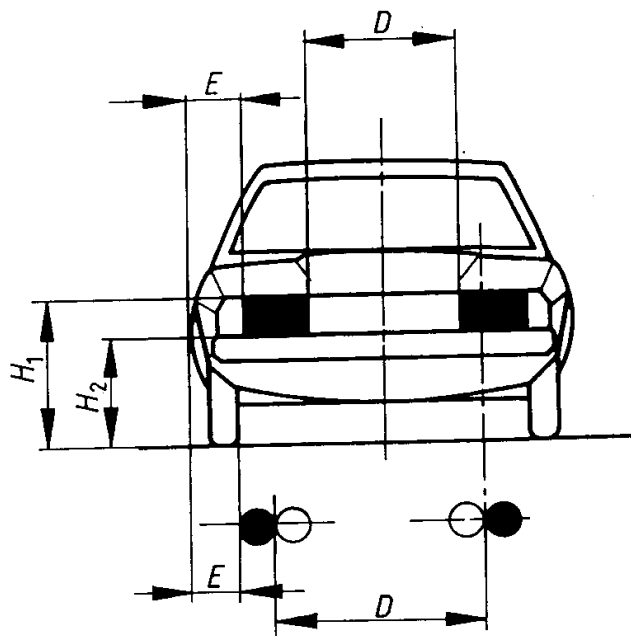
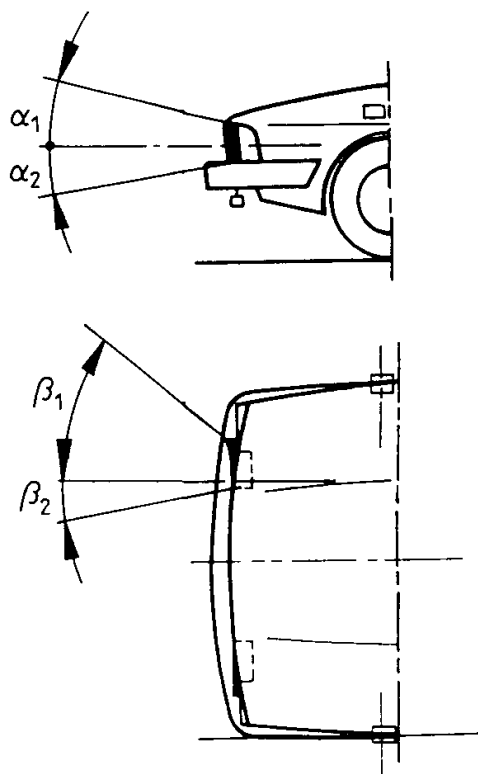
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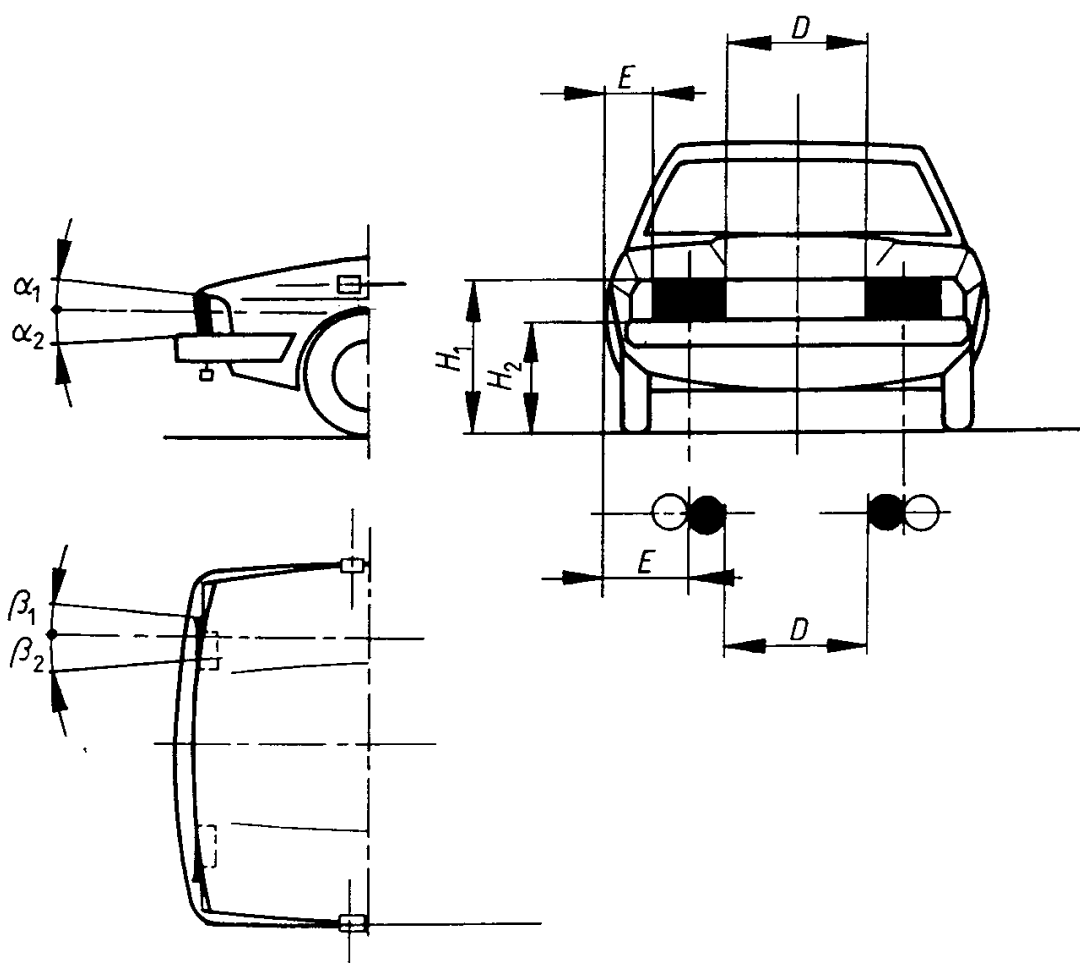
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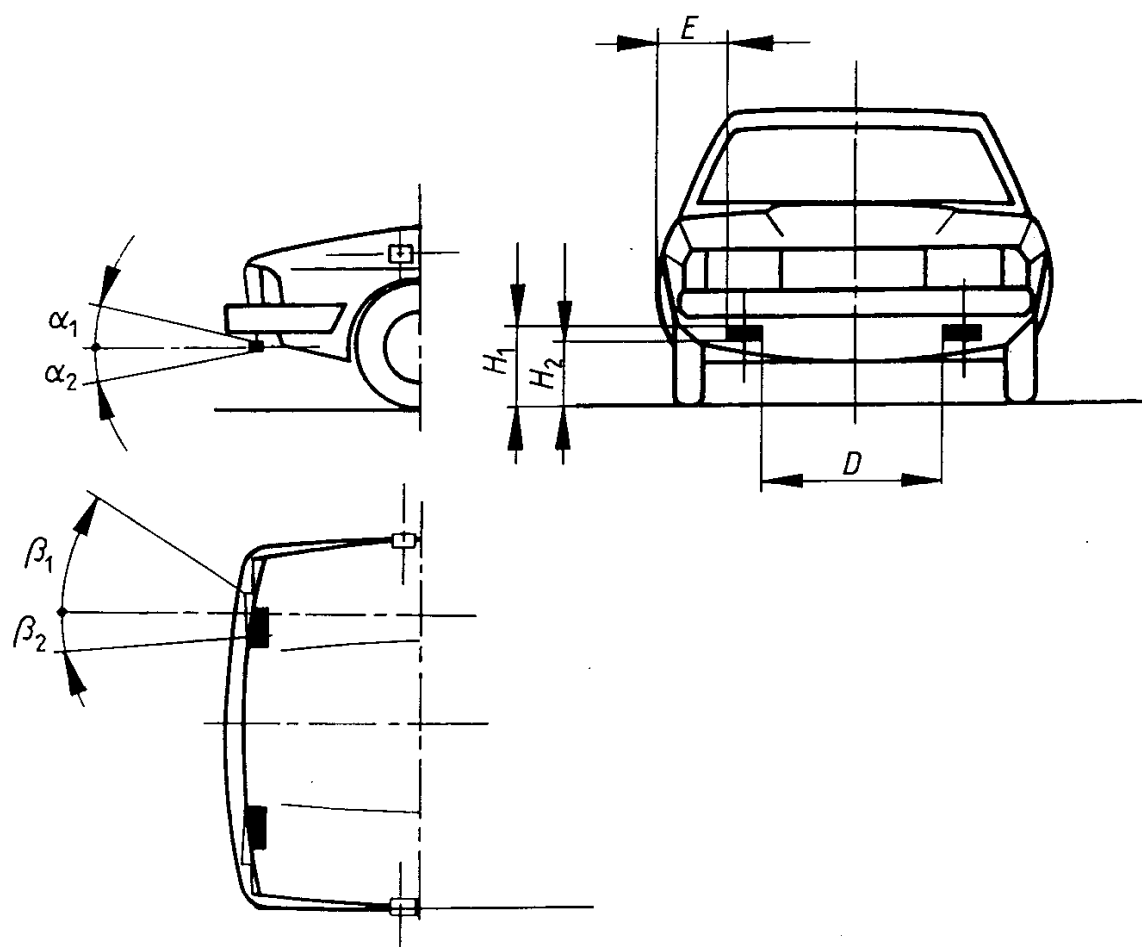
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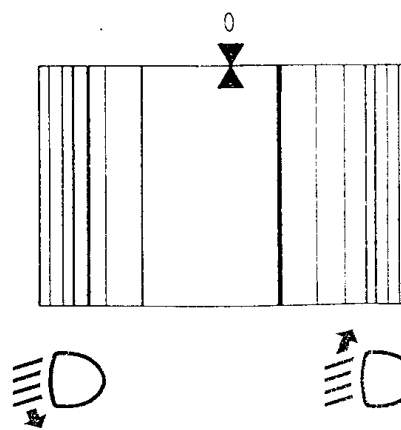
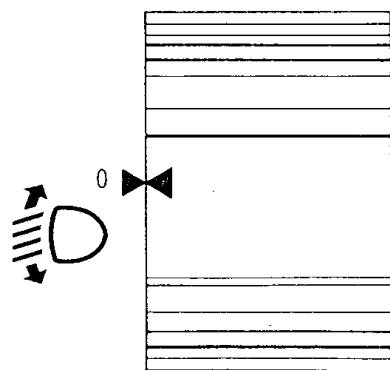
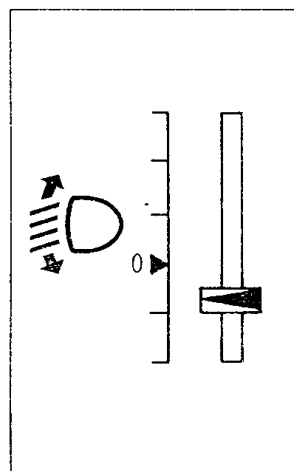
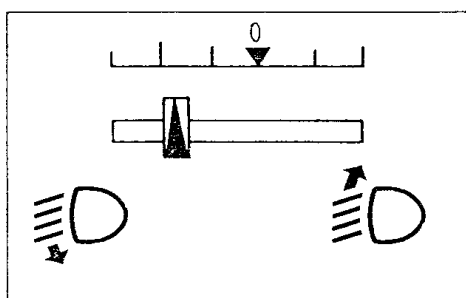
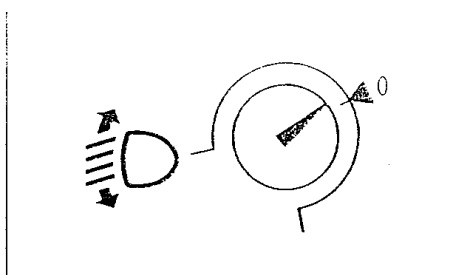
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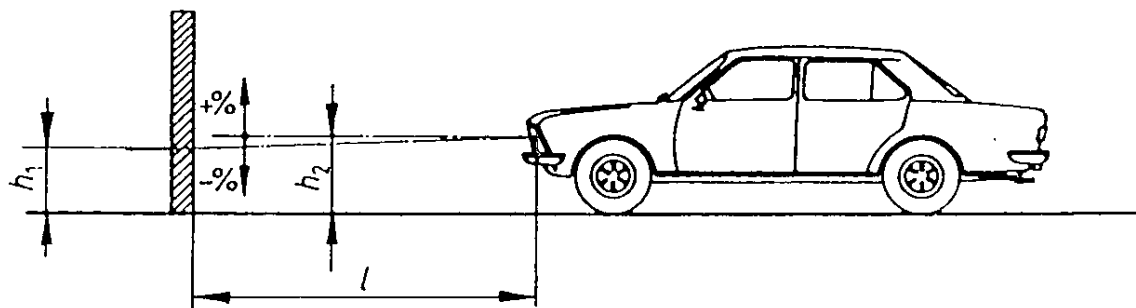
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## **TECHNICAL TERMS**

Aberration .....	-	/
Device .....		/
Photometric characteristics.....		
Angle of geometric visibility of a Lamp .....		
Light-emitting surface .....		
Motor vehicle.....		
Deliberately .....		
Non- restrictive .....		
Conventional cut-off .....		
Illuminating surface of lighting device.....		
Illuminating surface of reflex reflector.....		
Front Fog Lamp .....		
Main beam head Lamp .....	(    )	
Dipped-beam head Lamp.....	(    )	
Reciprocally incorporated Lamp .....		
Concealable Lamp .....	(    )	
Sealed-beam Lamp.....		
Rocker switch.....	(    )	
Mrad .....	(    )	
Suspension system .....		

## **REFERENCES**

ISO 7227/1987- Amd 1-2004  
Road Vehicles; Lighting and  
Light Signalling Devices Vocabulary.

ECE 48  
Installation of Lights

ISO 303/2002  
Road Vehicles - Installation of  
Lighting and Light Signalling Devices  
For Motor Vehicles and Their Trailers.

ISO 8218/1989  
Road Vehicles - Levelling  
Devices for Road Lamp Dipped Beam.

ISO 4182/1999  
Motor Vehicles - Measurement  
Of Variations in Dipped Beam Head Lamp  
Angle as a Function at Load.

ISO 3833/1977  
Road Vehicles - Types - Terms  
And Definitions.

ISO 612/1978  
Road Vehicles - Dimensions of  
Motor Vehicles and Towed Vehicles  
Terms and Definitions.